LISTING OF CLAIMS

- 1. (currently amended) A system for printing images on a substrate, comprising:
- a) an ink-jet ink including:
 - i) a liquid vehicle including water, and from 5 wt% to 35 wt% total organic solvent content, wherein the organic solvent content includes at least three of 1,5-pentanediol, ethoxylated glycerol, 1,2-pyrrolidinone, and 2-methyl-1,3-propanediol;
 - ii) from 0.1 wt% to 6 wt% of acid-functionalized pigment solids;
 - iii) from 0.001 wt% to 6 wt% of styrene-maleic anhydride copolymer, said styrene-maleic anhydride copolymer having a weight average molecular weight from about 400 Mw to 15,000 Mw.
- b) a printhead loaded with the ink-jet ink and configured for jetting the ink-jet ink at a firing frequency from 12 kHz to 25 kHz, and wherein the frequency response range for the ink-jet ink is such that the ink-jet ink is jettable at from 3 kHz to 25 kHz.
- 2. (previously presented) The system of claim 1, wherein the acid-functionalized pigment solids have an average size from about 5 nm to about 10 μ m.
- 3. (previously presented) The system of claim 1, wherein the ink-jet ink further comprises from 0.001 wt% to 0.3 wt% surfactant.
- 4. (previously presented) The system of claim 1, wherein the ink-jet ink further comprises from 0.05 wt% to 4 wt% of a salt selected from the group consisting of ammonium salt, sodium salt, potassium salt, and lithium salt.
- 5. (previously presented) The system of claim 4, wherein the ammonium salt is ammonium benzoate.
- 6. (previously presented) The system of claim 1, wherein an acid precursor used to form the acid-functionalized pigment is selected from the group consisting of para-aminobenzoic acids, isophthalic acids, triacids, and combinations thereof.

7. (cancelled)

- 8. (previously presented) The system of claim 1, wherein the printhead is configured for jetting the ink-jet ink at a drop volume from about 10 pL to 20 pL.
- 9. (previously presented) The system of claim 1, wherein the ink-jet ink further comprises a trishydroxymethylaminomethane buffer.

10. (cancelled)

- 11. (currently amended) A method of rapidly printing an ink-jet image, comprising ink-jetting an ink-jet ink onto a media substrate at a firing frequency from 12 kHz to 25 kHz, said ink-jet ink comprising:
 - a) a liquid vehicle including water, and from 5 wt% to 35 wt% total organic solvent content, wherein the organic solvent content includes at least three of 1,5-pentanediol, ethyoxylated glycerol, 1,2-pyrrolidinone, and 2-methyl-1,3-propanediol;
 - b) from 0.01 wt% to 6 wt% of acid-functionalized pigment solids;
 - c) from 0.001 wt% to 6 wt% of styrene-maleic anhydride copolymer, said styrene-maleic anhydride copolymer having a weight average molecular weight from about 400 Mw to 15,000 Mw,

wherein the frequency response range for the ink-jet ink is such that the ink-jet ink is jettable at from 3 kHz to 25 kHz.

- 12. (previously presented) The method of claim 11, wherein the acid-functionalized pigment solids have an average size from about 5 nm to about 10 μ m.
- 13. (previously presented) The method of claim 11, wherein the ink-jet ink further comprises from 0.001 wt% to 0.3 wt% surfactant.
- 14. (previously presented) The method of claim 11, wherein the ink-jet ink further comprises from 0.05 wt% to 4 wt% of an ammonium salt.

- 15. (previously presented) The method of claim 14, wherein the ammonium salt is ammonium benzoate.
- 16. (previously presented) The method of claim 11, wherein an acid precursor used to form the acid-functionalized pigment is selected from the group consisting of para-aminobenzoic acids, isophthalic acids, triacids, and combinations thereof.
- 17. (previously presented) The method of claim 11, wherein the firing frequency is from 15 kHz to 25 kHz.
- 18. (previously presented) The method of claim 11, wherein ink-jetting step is at a drop volume from about 10 pL to 20 pL.
- 19 (previously presented) The method of claim 11, wherein the ink-jet ink further includes a trishydroxymethylaminomethane buffer.

20. (cancelled)

- 21. (currently amended) An ink-jet ink composition, comprising:
- a) a liquid vehicle having from 5 wt% to 35 wt% of total organic solvent content, wherein the organic solvent content includes at least three of 1,2-pentanediol, ethoxylated glycerol, 1,2-pyrrolidinone, and 2-methyl-1,3-propanediol;
- b) from 0.1 wt% to 6 wt% of acid-functionalized pigment solids;
- c) from 0.001 wt% to 6 wt% of styrene-maleic anhydride copolymer, said styrene-maleic anhydride copolymer having a weight average molecular weight from about 400 Mw to 15,000 Mw;

wherein the ink-jet ink composition is reliably jettable at a <u>all</u> firing frequency frequencies ranging from 12 3 kHz to 25 kHz.

22. (previously presented) The ink-jet ink composition of claim 21, wherein the acid-functionalized pigment solids have an average size from about 5 nm to about 10 μ m.

- 23. (previously presented) The ink-jet ink composition of claim 21, wherein the ink-jet ink further comprises from 0.001 wt% to 0.3 wt% surfactant.
- 24. (previously presented) The ink-jet ink composition of claim 21, wherein the ink-jet ink further comprises from 0.05 wt% to 4 wt% of an ammonium salt.
- 25. (previously presented) The ink-jet composition of claim 24, wherein the ammonium salt is ammonium benzoate.
- 26. (previously presented) The ink-jet ink composition of claim 21, wherein an acid precursor used to form the acid-functionalized pigment is selected from the group consisting of para-aminobenzoic acids, isophthalic acids, triacids, and combinations thereof.

27. (cancelled)

- 28. (previously presented) The ink-jet ink composition of claim 21, wherein the ink-jet ink composition is reliably jettable at a drop volume from about 10 pL to 20 pL.
- 29. (previously presented) The ink jet ink composition of claim 21, wherein the ink-jet ink further includes a trishydroxymethlyaminomethane buffer.

30. (cancelled)